

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 4	
2. AMENDMENT/MODIFICATION NO. 48		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office – ODIN – OP-MS Kennedy Space Center, FL 32899		7. ADMINISTERED BY (If other than Item 6)	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) OAO Corporation 7500 Greenway Center Drive Greenbelt MD 20770		<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. NAS5-98144/CC90303B 10B. DATED (SEE ITEM 13) December 1, 2001			
CODE				FACILITY CODE	
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<p>[] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [] is extended, [] is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning ____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.</p>					
12. ACCOUNTING AND APPROPRIATION DATA (If required)					

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.	
	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: NAS5-98144 Contract Clause C.7 Technology Refreshment Process and FAR Clause 52.212-4 Contract Terms and Conditions-Commercial Items, (c) Changes
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor [] is not, [**X**] is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

Stennis Space Center --- ODIN SERVICES

Technology Infrastructure: SWR **P203 2N24 00**

Change in Delivery Order Price: \$7,893.82 (INCREASE)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Lisa A. Nicholson Contracts Manager		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Penelope A. Ebright Contracting Officer	
15B. CONTRACTOR/OFFEROR Original signed by Lisa A. Nicholson (Signature of person authorized to sign)	15C. DATE SIGNED 7/25/02	16B. UNITED STATES OF AMERICA BY Original Signed by Penelope A. Ebright (Signature of Contracting Officer)	16C. DATE SIGNED 7/29/02

1. In accordance with Master Contract NAS5-98144, C.7, Technology Refreshment Process, the technology refreshment services referenced below is hereby incorporated into this Delivery Order at a fixed price of \$7,893.82.

SWR #	Subject	Amount
P203 2N24 00	Install Network Hubs in B2437	\$7,893.82

2. SWR P203 2N24 00

The contractor shall provide the labor (including, but not limited to, engineering, configuration management, user coordination/scheduling, wiring/cabling and equipment installation) and materials necessary to install in B2437 (2) (GFE) Cisco Catalyst 3550-48XL network hubs. One will be on the network with a GigE uplink and the other will be a standalone switch. as identified in OAO proposal dated July 10, 2002.

a. The contractor shall perform the following tasks:

- 1) Install (1) GFE Cisco Catalyst 3550-48XL with a GigE uplink.
- 2) Provide a temporary 10M uplink to this hub until new Cisco switch can be installed in building 2204.
- 3) Install (1) GFE Cisco Catalyst 3550-48XL as a stand-alone unit.
- 4) Update network drawings after job has been completed
- 5) Update network databases after job has been completed
- 6) Install (1) 4-pair level 3 PVC wire to (7) locations and terminate (2) pairs on (1) dual RJ11 jack and place in existing faceplate in rooms 101 and 102 of B2438. This will provide (2) telephone jacks at each of the locations.
- 7) Install (1) 110 rack mount panel in the existing 19" equipment cabinet and mount (2) 110DW2 wiring blocks on the rack.
- 8) Mount GFE network hub in the existing 19" equipment cabinet.
- 9) Install (48) solid copper Cat5 cords from the GFE network hub and terminate them on the (2) 110DW2 wiring blocks using the 110C-4 connectors.
- 10) Install (1) 3/4" x 4' x 8' sheet of plywood on the wall behind the existing equipment cabinet.
- 11) Install (1) 19" wall mount equipment cabinet.
- 12) Install (1) 110 rack mount panel in the new 19" equipment cabinet and mount (2) 110DW2 wiring blocks on the rack.
- 13) Remove Cat5 wiring that goes to jack (22) in room 100 in B2437 and Cat5 wiring that goes to jack (13) room 100 in B2438 and terminate them on the 110 wiring block in new wall mount cabinet.
- 14) Mount new GFE network hub in wall mount cabinet.
- 15) Install (24) solid copper Cat5 station cords from network hub and terminate on (1) 110 wiring block in wall mount equipment cabinet.
- 16) Test and label new telephone jacks.
- 17) Test and label Cat5 wiring that was moved up to wall mount cabinet.

b. The contractor shall provide the following material:

- 1) 1000 FT of 4-pair level 3 PVC wire (CM-00424BAG-3U)
- 2) 76 each 110C-4 connectors for 110 wiring blocks (073039)
- 3) 72 solid copper cords (M54AAPBBL-010)
- 4) 30 each Velcro ties
- 5) 7 each IMO II PCB dual RJ11 USOC jacks (148035)
- 6) 4 each 110DW2-100 wiring blocks (154072)
- 7) 2 each 110 Rack mount panels (222729)
- 8) 2 each 5-meter ST/SC singlemode fiber jumper (152039)
- 9) 2 each 2-meter ST/ST singlemode fiber jumper (151987)
- 10) 2 each 1-meter ST/ST singlemode fiber jumper (151986)
- 11) 1 each 3-meter ST/SC singlemode fiber jumper (152038)
- 12) 1 each 2-meter ST/SC single mode fiber jumpers (152037)
- 13) 1 each wall mount cabinet (GL24WS) Great Lakes e/w different lock than standard
- 14) 1 each Plexiglass door with lock (24WS-02) Great Lakes
- 15) 1 each 6-position power strip with circuit breaker (214165) Great Lakes
- 16) 1 sheet of $\frac{3}{4}$ " x 4' x 8' of plywood

c. The following material will be provided by NASA:

- 1) 1 each GFE Cisco Catalyst 3550-48XL with a GigE uplink (WS-C3550-48-SMI)
- 2) 1 each GFE Cisco Catalyst 3550-48XL standalone (WS-C3550-48-SMI)
- 3) 3 each GFE Cisco GBICs (WS-G5486)
- 4) 1 each (GFE) APC Smart-ups 1000VA USB 120V (SUA1000) (245380)
- 5) 3 years of (GFE) maintenance for the Cisco switch (cont-snt-35xx)
- 6) 3 years of (GFE) maintenance for the spare switch (cont-snt-35xx)

d. Schedule: The completion of this effort shall be (2) two weeks after the receipt of a signed Modification.

3. Part II "Contract Administration Data", Item 4, is revised as indicated below to incorporate the increase of \$7,893.82 for these infrastructure upgrades:

4. TOTAL DELIVERY ORDER VALUE (through Mod No. 48)

Ordered Seats/Service Levels (Attachment A)	\$2,873,200.27
Catalog Actuals	\$190,834.70
Specialized Services	\$2,850.00
Infrastructure Upgrades	\$1,075,969.33
Sub-total	\$4,142,854.30
Less credits	(\$1,181.83)
Less retainage not earned	(\$26,619.45)
Sub-total	\$4,115,053.02
Seats/Service levels projected through 11/30/04	\$12,841,388.80
Total Estimated Delivery Order Value:	\$16,956,441.82

4. Part V "Technology Infusion (Infrastructure Upgrades)", Item 2 is modified to include the subject infrastructure upgrades. The signed date and completion date will be completed in a future infrastructure upgrade modification.

Mod. No.	Description of Work	Date Signed	Completion Date	Modification Value
48	P203 2N24 00 Install Network Hubs in B2437			\$7,893.82

5. Payment Schedule: Invoicing and Payment for this modification will be made in accordance with Master Contract NAS5-98144, FAR 52.212-4: Commercial Items (May 1997) (Modified).
6. Reporting requirements: The contractor shall provide monthly status reports to the SSC Alternate DOCOTR, with a copy to the DOCO. These reports shall include, as a minimum, installation progress, and potential problem areas.
7. In consideration of the modification agreed to herein as complete equitable adjustment for the changes set forth, the Contractor hereby releases the Government from any and all liability under this delivery order for further equitable adjustments attributable to such facts or circumstances giving rise to these changes.
8. All other terms and conditions of this Delivery Order remain unchanged and in full force and effect.